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Application#	Patent#	Status	Date Filed	Title	Inventor Name 13
<u>09808786</u>	Not Issued	030	03/15/2001	EXPERIMENTAL DESIGN FOR COMPLEX SYSTEMS	HEAVLIN, WILLIAM D.
<u>09637100</u>	<u>6708073</u>	150	08/10/2000	LOT SPECIFIC PROCESS DESIGN METHODOLOGY	HEAVLIN, WILLIAM D.
<u>09487549</u>	<u>6586755</u>	150	01/19/2000	FEED-FORWARD CONTROL OF TCI DOPING FOR IMPROVING MASS-PRODUCTION-WISE STATISTICAL DISTRIBUTION OF CRITICAL PERFORMANCE PARAMETERS IN SEMICONDUCTOR DEVICES	HEAVLIN, WILLIAM D.
<u>09487548</u>	<u>6567717</u>	150	01/19/2000	FEED-FORWARD CONTROL OF TCI DOPING FOR IMPROVING MASS-PRODUCTION-WISE, STATISTICAL DISTRIBUTION OF CRITICAL PERFORMANCE PARAMETERS IN SEMICONDUCTOR DEVICES	HEAVLIN, WILLIAM D.
<u>09276422</u>	<u>6389366</u>	150	03/25/1999	METHODS FOR IDENTIFYING SOURCES OF PATTERNS IN PROCESSING EFFECTS IN MANUFACTURING	HEAVLIN, WILLIAM D.
<u>09130528</u>	<u>6366822</u>	150	08/04/1998	STATISTICAL PROCESS WINDOW DESIGN METHODOLOGY	HEAVLIN, WILLIAM D.
<u>09112606</u>	<u>6304836</u>	150	07/09/1998	WORST CASE DESIGN PARMETER EXTRACTION FOR LOGIC TECHNOLOGIES	HEAVLIN, WILLIAM D.
<u>08901488</u>	Not Issued	161	07/28/1997	COMPUTER IMPLEMENTED METHOD FOR ESTIMATING FABRICATION YIELD FOR SEMICONDUCTOR	HEAVLIN, WILLIAM D.

				INTEGRATED CIRCUIT INCLUDING MEMORY BLOCKS WITH REDUNDANT ROWS AND/OR COLUMNS	
<u>08891586</u>	<u>5946214</u>	250	07/11/1997	COMPUTER IMPLEMENTED METHOD FOR ESTIMATING FABRICATION YIELD FOR SEMICONDUCTOR INTEGRATED CIRCUIT INCLUDING MEMORY BLOCKS WITH REDUNDANT ROWS AND/OR COLUMNS	HEAVLIN , WILLIAM D.
<u>08738542</u>	<u>5966527</u>	250	10/28/1996	APPARATUS, ARTICLE OF MANUFACTURE, METHOD AND SYSTEM FOR SIMULATING A MASS-PRODUCED SEMICONDUCTOR DEVICE BEHAVIOR	HEAVLIN , WILLIAM D.
<u>08480788</u>	<u>5724251</u>	150	06/07/1995	SYSTEM AND METHOD FOR DESIGNING, FABRICATING AND TESTING MULTIPLE CELL TEST STRUCTURES TO VALIDATE A CELL LIBRARY	HEAVLIN , WILLIAM D.
<u>08456938</u>	<u>5655110</u>	150	05/31/1995	METHOD FOR SETTING AND ADJUSTING PROCESS PARAMETERS TO MAINTAIN ACCEPTABLE CRITICAL DIMENSIONS ACROSS EACH DIE OF MASS-PRODUCED SEMICONDUCTOR WAFERS	HEAVLIN , WILLIAM D.
<u>08388016</u>	<u>5646870</u>	150	02/13/1995	METHOD FOR SETTING AND ADJUSTING PROCESS PARAMETERS TO MAINTAIN ACCEPTABLE CRITICAL DIMENSIONS ACROSS EACH DIE OF MASS-PRODUCED SEMICONDUCTOR WAFERS	HEAVLIN , WILLIAM D.

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... blinking light in a 4 x 4 **matrix** of lights. ... results for those infants who habituated to our **criterion**. ... testing the notion, proposed by Karen **Wynn** (1992), that 5 ...

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[Phys. Rev. B 34, 8125 \(1986\): Betsuyaku - Finite-lattice ...](#)

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... am -0, while it reduces to **Wynn's** Λ algorithm to gen-. ... the **matrix** of size $M \times M$ on a state of size M ... **criterion** as to how large a lattice size should be con-. ...

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... Wave Operator; Wave Surface; Wavelet; Wavelet **Matrix**; ... Werner Formulas; Weyl's **Criterion**; Weyl Tensor; Weyrich's ... Writhe; Wronskian; Wulff Shape; **Wynn's** Epsilon Method; ...

icl.pku.edu.cn/yujs/MathWorld/math/w/w.htm - 9k - [Cached](#) - [Similar pages](#)

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... two Disney movies in which **Wynn's** character gave ... frequently found on many of **Criterion's** discs of ... **The Matrix Reloaded** Director: Larry Wachowski, Andy Wachowski ...

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... getting beat up in Flagstone by Keenan **Wynn's** sheriff and ... **Criterion** does its typically excellent job of honoring the ... returns, be it BATMAN, THE **MATRIX**, the DIE ...

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... in the war room) and punny names (Keenan **Wynn's** paratrooper character ... Its a shame that the first **matrix** is ruined by ... Rebecca - **Criterion** Collection, Ready To Buy ...

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[\[PS\] ON THE LAGUERRE METHOD FOR NUMERICALLY INVERTING LAPLACE ...](#)

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... such that the aliasing error bound meets a prescribed error **criterion**. ... We propose using **Wynn's** [55], [56] ffl-algorithm to ... The **matrix** Laguerre transform, Appl. ...

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[\[PS\] Institut f'ur Theoretische Physik Fakult"at Mathematik und ...](#)

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Institut f'ur Theoretische Physik Fakult"at Mathematik und Naturwissenschaften. Technische Universit"at Dresden. Quantum Electrodynamics ...

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[GYGAX!!!](#)

... next Twin Peaks-related project is a "**Criterion**"-quality version ... included are a little blurb by **wynn** and some ... paper, mapping out these dot-**matrix** realms, until ...

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... 110] for accelerating the convergence of a sequence, **Wynn's** epsilon algorithm ... These algorithms are related to Hankel **matrix** factorizations, formally orthogonal ...

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... **Wynn's** Industrie provides technical solutions to customers involved in demanding metal ... independent carriage use - the height of the **matrix** extractor/feeder can ...
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Topics

... wavelet **matrix**, wavelet transform, weak convergence. ... weyl's **criterion**, weyl's denominator formula, weyrich's formula. ... **wynn's** epsilon method, wythoff array, wythoff ...
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... within the purview of the trier-of-fact. **Heavlin** v. Consolidation Coal Co., 6 BLR 1-1209 (1984). The Third Circuit has set forth a ...
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... Experimental Design. (Max Morris) [Chair: Angela Dean]. William **Heavlin**, Sun Microsystems, "Potential Information and Experimental Design". ...
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... Douglas High School. Students pictured from left to right. Nicole Kjellsen. Katie **Heavlin**. Christopher Rudolph. Courtney Claussen. Natisha Dixon. ...
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... Phone: (740) 942-8837. Fax: (740) 942-4036. Supervisors. 2005, S, TILLIE **HEAVLIN**. 2006, F, DON ZITKO. 2005, V, DOUG CALDWELL. 2004, C, DOUG ARBAUGH. 2004, T, KEVIN BEST. ...
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 ... analysis"). [- Bill **Heavlin**, MS 152, Advanced Micro Devices,POBox 3453, Sunnyvale, CA 94088-3453i, USA;. BILL.**HEAVLIN**@AMD.COM.]. 239 ...
 www.stat.unipg.it/stat/statlib/imsbull/IMS-Bulletin-24-2/ PS-Waterloo_Abstracts.ps - [Similar pages](#)

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... **Heavlin** Eugene M DMD 1783 E Main St Prattville, AL 36066 334-361 ...
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The Team

... and Laci Volk. Phase 2 Team Chance Therault, Katie **Heavlin**, Melanie Rudolf,. Laci Volk, Heather Prince, Lisa Williams (not pictured: Bobby Doolan). ...
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... C, Plot #108 Newell, John Walter, b. 1878, d. 1974, Sec F, Plot #635 Newell, LG Sheldon, b. 1881, d. 1951, Sec E, Plot #423 Newell, Mary Jane (**Heavlin**), b. 1880 ...

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William D. **Heavlin** (1980). Name, William D. **Heavlin**. Advisor, Solomon. Committee, Solomon, Olkin, Johns. Thesis Title, A Parametric Analysis ...

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... BY AREA CODE. BY STATE. **HEAVLIN**, EUGENE M DDS, Clinic: -. Address: 1783 E MAIN ST. City: PRATTVILLE. State: AL. Zip Code: 36066. Phone: (334)361-9959. Speciality:

... ..

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Heavlin, WD and Finnegan GP (1998). Columnwise construction of ...

... Statistica Sinica 8(1998), 185-206. COLUMNWISE CONSTRUCTION OF RESPONSE. SURFACE DESIGNS. William D. **Heavlin** and G. Paul Finnegan. Advanced Micro Devices. ...

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Rich **Heavlin**. 3615 S. M-33 West Branch, MI 48661. Business Highlights.

Overview: Moonlight Productions provides professional sound, and ...

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... Still living as of 1948. **Heavlin**, Jack See John **Heavlin**; **Heavlin**, John -- also known as Jack **Heavlin** -- of Missoula, Missoula County, Mont. Democrat. ...

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Welcome to the **Heavlin** Family Page. ... My name is Rich **Heavlin**, I am the Owner/Operator of Moonlight Productions a Mobile Disc Jockey service in Northern Michigan. ...

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Wynn's Epsilon Method

Wynn's ϵ -method is a method for numerical evaluation of sums and products that samples a number of additional terms in the series and then tries to extrapolate them by fitting them to a polynomial multiplied by a decaying exponential.

In particular, the method provides an efficient algorithm for implementing transformations of the form

$$T(S_n) = \frac{S_{n+1}S_{n-1} - S_n^2}{S_{n+1} - 2S_n + S_{n-1}}, \quad (1)$$

where

$$S_n = \sum_{k=0}^n a_k, \quad (2)$$

is the n th partial sum of a sequence $\{a_k\}_{k=0}^{\infty}$, which are useful for yielding series convergence improvement (Hamming 1986, p. 205). In particular, letting $\epsilon_0(S_n) = S_n$, $\epsilon_{-1}(S_n) = 0$, and

$$\epsilon_{r+1}(S_n) = \epsilon_{r-1}(S_{n+1}) + \frac{1}{\epsilon_r(S_{n+1}) - \epsilon_r(S_n)} \quad (3)$$

for $r = 1, 2, \dots$. The values of $\epsilon_{2k}(S_n)$ are there equivalent to the results of applying k transformations to the sequence S_n (Hamming 1986, p. 206).

Wynn's epsilon method can be applied to the terms of a series using the *Mathematica* command `SequenceLimit[]`. Wynn's method may also be invoked in numerical summation and multiplication using `Method -> Fit` in *Mathematica*'s `NSum` and `NProduct` commands. It is also utilized in the routine `NLimit[expr, x -> x0]`.

Wynn's epsilon method is a member of a large family of similar so-called lozenge, or rhombus, transformations (Hamming 1986, p. 207).

SEE ALSO: [Convergence Improvement](#), [Euler-Maclaurin Integration Formulas](#), [Wynn's Epsilon Method](#)

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Weniger, E. J. "Nonlinear Sequence Transformations for the Acceleration of Convergence and the Summation of Divergent Series." 19 Jun 2003.

<http://arXiv.org/abs/math.NA/0306302>.




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